

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P478303

Luminaire Tested: **IFLD-L-SA8A-827-U-T4FT**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P478303
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-827-U-T4FT
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T4FT distribution lens
Light Source: (128) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

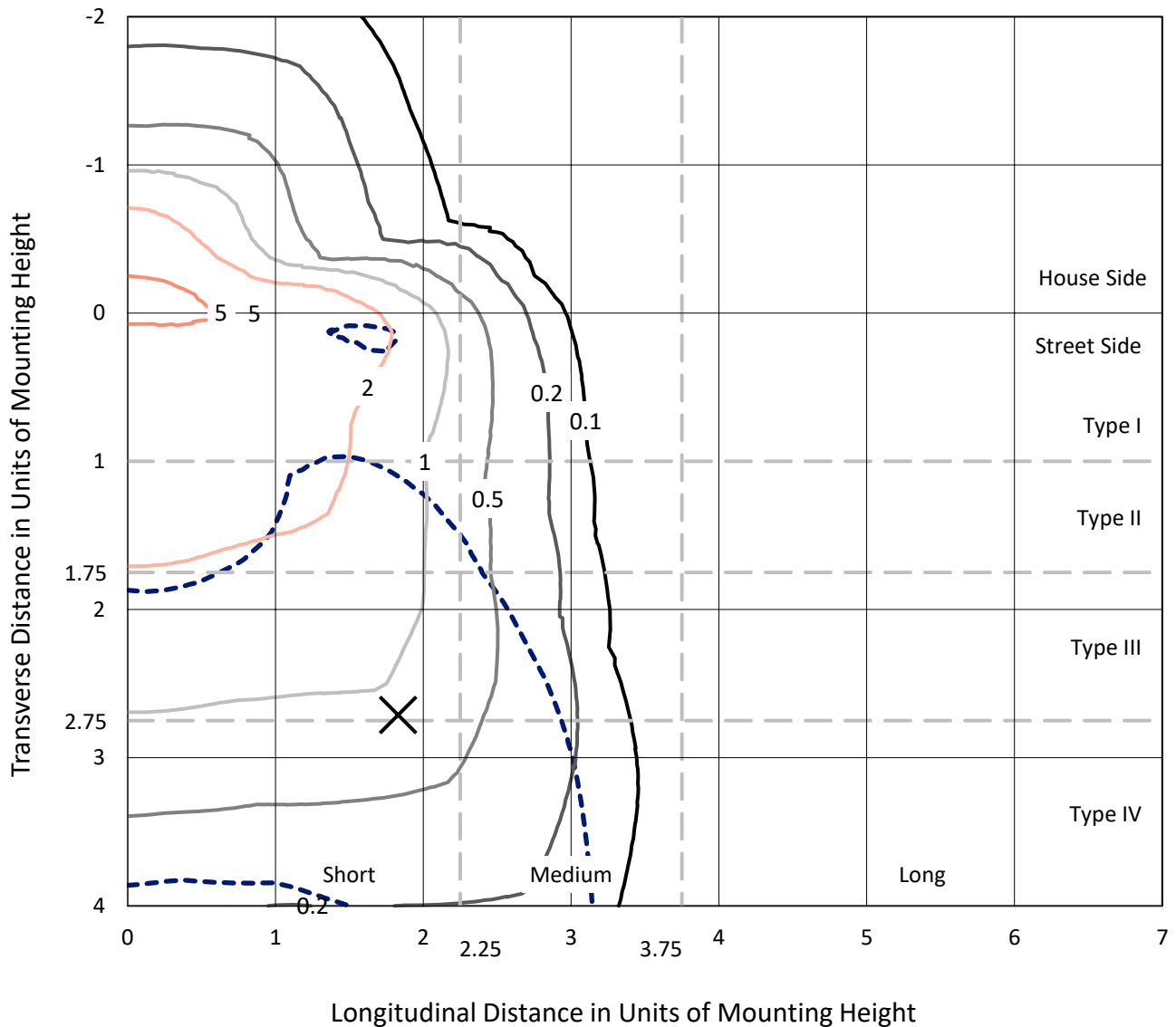
Lumens per Lamp: N/A
Luminaire Lumens: 25798.5 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

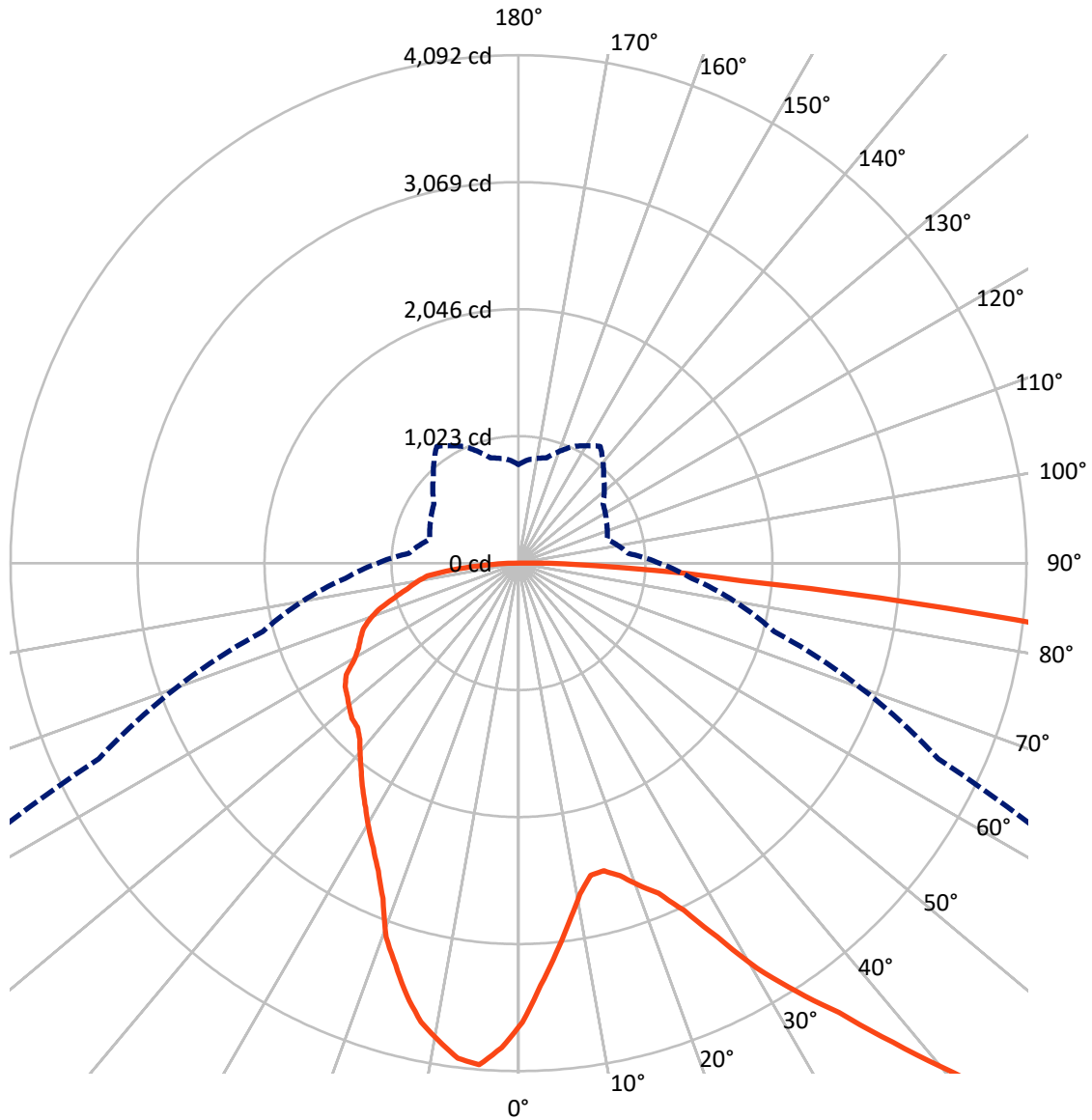
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5572.8	0.0	5572.8
	% Fixture	21.6	0.0	21.6
Street Side	Lumens	20225.7	0.0	20225.7
	% Fixture	78.4	0.0	78.4
Total	Lumens	25798.5	0.0	25798.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.4	1.3
10°-20°	955.3	3.7
20°-30°	1572.3	6.1
30°-40°	2351.4	9.1
40°-50°	3485.9	13.5
50°-60°	5023.5	19.5
60°-70°	6410.7	24.8
70°-80°	4988.6	19.3
80°-90°	669.3	2.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	25798.5	100.0
0°-180°	25798.5	100.0

Coefficient of Utilization

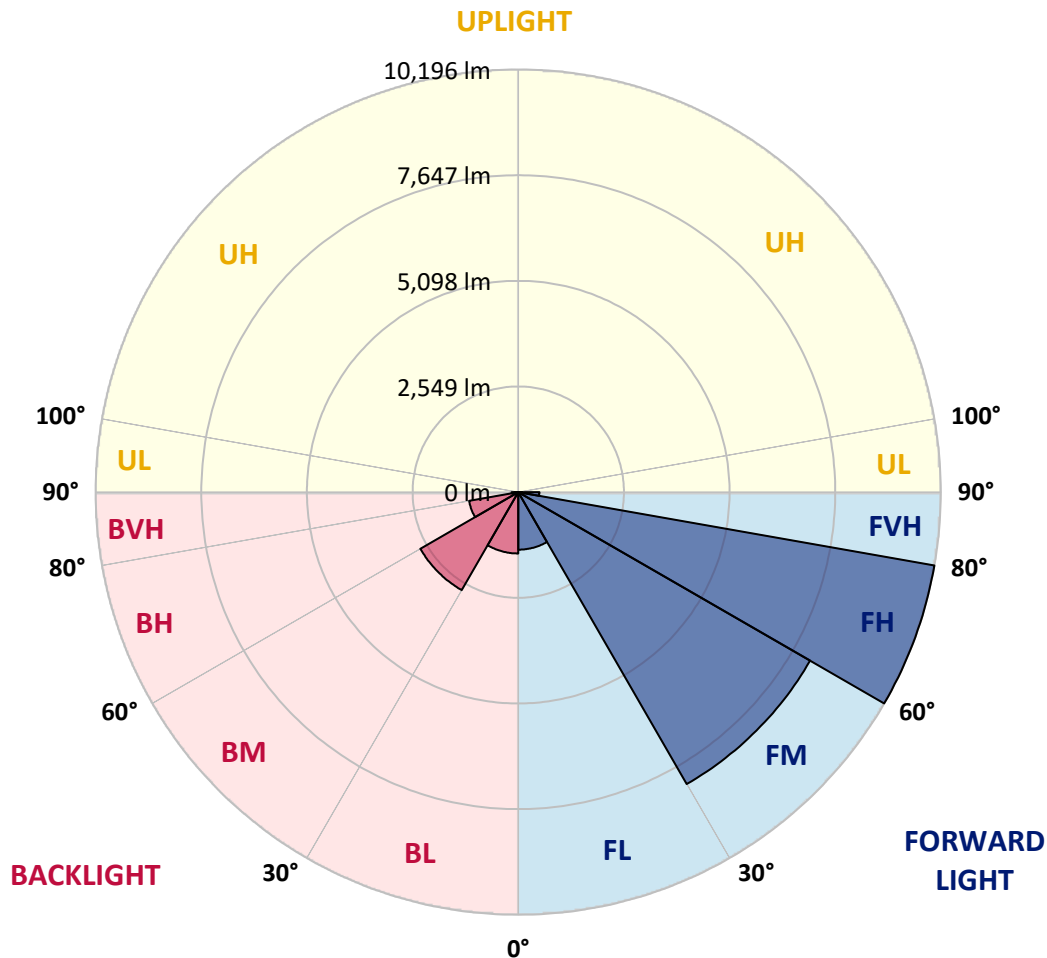


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1388.4	5.4			
FM (30°-60°)	8131.9	31.5			
FH (60°-80°)	10196.0	39.5			G4/12000
FVH (80°-90°)	509.4	2.0			G4/750
BL (0°-30°)	1480.7	5.7	B3/2500		
BM (30°-60°)	2729.0	10.6	B3/5000		
BH (60°-80°)	1203.3	4.7	B3/2500		G3/2500
BVH (80°-90°)	159.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6
2.5°	3314.0	3324.9	3360.4	3368.6	3406.8	3384.9	3431.3	3513.1	3559.5	3627.7	3709.5
5°	3052.2	3005.8	3027.6	3112.2	3155.8	3166.7	3215.8	3354.9	3442.2	3543.1	3695.9
7.5°	2744.0	2735.8	2779.4	2834.0	2921.3	2929.4	3038.5	3161.3	3341.3	3565.0	3745.0
10°	2533.9	2569.4	2593.9	2651.2	2711.2	2711.2	2850.3	3063.1	3267.7	3483.1	3755.9
12.5°	2523.0	2501.2	2506.7	2536.7	2580.3	2634.9	2765.8	2956.7	3215.8	3466.8	3802.3
15°	2558.5	2566.7	2517.6	2555.8	2572.1	2591.2	2735.8	2951.3	3183.1	3524.1	3881.4
17.5°	2746.7	2700.3	2623.9	2588.5	2645.8	2645.8	2744.0	2913.1	3188.6	3554.1	3995.9
20°	2894.0	2894.0	2768.5	2730.3	2771.2	2763.1	2831.2	2956.7	3215.8	3614.1	4124.1
22.5°	3142.2	3177.6	2970.4	2891.3	2888.5	2910.3	2970.4	3076.7	3292.2	3698.6	4246.9
25°	3499.5	3507.7	3267.7	3185.8	3098.5	3134.0	3144.9	3251.3	3360.4	3796.8	4386.0
27.5°	3897.7	3892.3	3671.3	3466.8	3409.5	3417.7	3357.7	3428.6	3461.3	3826.8	4585.1
30°	4339.6	4290.5	4124.1	3835.0	3788.6	3736.8	3605.9	3603.2	3671.3	3995.9	4860.6
32.5°	4628.7	4566.0	4451.4	4244.1	4115.9	4121.4	3914.1	3911.4	3851.4	4181.4	5100.6
35°	4912.4	4816.9	4786.9	4574.2	4446.0	4459.6	4293.2	4271.4	4162.3	4462.3	5496.1
37.5°	5253.3	5168.8	5215.2	5054.2	4896.0	4830.6	4754.2	4726.9	4585.1	4857.8	6036.2
40°	5629.8	5602.5	5572.5	5493.4	5397.9	5403.4	5321.5	5294.3	5084.2	5335.2	6554.4
42.5°	6137.1	6033.4	5878.0	5929.8	5978.9	6030.7	6003.4	5932.5	5714.3	5820.7	7132.7
45°	6609.0	6472.6	6186.2	6202.6	6404.4	6445.3	6775.3	6767.2	6328.0	6437.1	7790.0
47.5°	6928.1	6865.4	6693.5	6674.4	6963.6	6960.8	7555.4	7555.4	6974.5	7050.8	8496.5
50°	7402.7	7239.0	7165.4	7260.9	7408.1	7509.1	8351.9	8403.7	7610.0	7691.8	9421.1
52.5°	7959.1	7754.6	7569.1	7814.6	8076.4	8141.9	9140.2	9118.4	8098.2	8436.5	10504.0
55°	8420.1	8316.4	8188.2	8330.1	8758.3	8840.1	9931.2	9729.3	8586.5	9052.9	11024.9
57.5°	8957.4	9020.2	9047.4	9012.0	9522.0	9650.2	10834.0	10255.8	9006.5	9467.5	11330.4
60°	9767.5	9805.7	9841.2	9925.7	10465.8	10645.8	11548.6	10915.8	9271.1	9707.5	11355.0
62.5°	11000.4	10853.1	10932.2	11224.1	11657.7	11862.3	12601.5	11379.5	9472.9	9852.1	10553.1
65°	12410.6	12211.4	12129.6	12506.0	13629.8	13466.1	13916.2	11725.9	9181.1	9312.0	8949.2
67.5°	13839.8	13861.6	13651.6	14407.2	15784.6	15784.6	15138.2	11892.3	8390.1	7547.3	6276.2
70°	14974.5	15042.7	15157.2	16622.0	18804.0	19134.1	16652.0	11210.4	6778.1	5024.2	3431.3
72.5°	14958.1	14753.6	15340.0	18037.6	21548.0	21272.5	16968.4	8864.7	4230.5	2460.3	1573.8
73°	14622.6	14450.8	15091.8	18024.0	21659.8	21400.7	16736.5	8171.9	3731.4	2133.0	1399.3
75°	11941.4	11630.5	12721.5	16324.7	20039.6	20238.8	14219.0	5329.7	2045.7	1314.7	984.7
77.5°	5444.3	5580.7	7001.7	10951.3	15443.6	15678.2	9347.5	2304.8	1121.0	921.9	725.5
80°	1748.4	1835.7	2724.9	5444.3	9680.2	10103.0	4320.5	1047.4	799.2	706.4	542.8
82.5°	668.3	665.5	1142.9	2263.9	4587.8	4857.8	1579.3	638.3	594.6	521.0	384.6
85°	234.6	245.5	431.0	894.7	1805.7	1890.2	548.2	354.6	411.9	349.1	220.9
87.5°	81.8	84.6	152.7	324.6	621.9	657.4	152.7	141.8	204.6	201.8	111.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6	3698.6
2.5°	3736.8	3761.4	3769.5	3867.7	3867.7	3867.7	3905.9	3905.9	3895.0	3867.7	3933.2
5°	3753.2	3796.8	3881.4	3965.9	3987.7	4006.8	4058.7	4015.0	4031.4	4004.1	4028.7
7.5°	3799.5	3859.5	4017.7	4069.6	4034.1	4075.0	4020.5	3990.5	3960.5	3971.4	3933.2
10°	3878.6	3955.0	4028.7	4124.1	4055.9	4015.0	3903.2	3875.9	3780.4	3747.7	3777.7
12.5°	3976.8	4069.6	4195.0	4159.6	4028.7	3911.4	3791.4	3676.8	3619.5	3537.7	3559.5
15°	4075.0	4181.4	4200.5	4140.5	3976.8	3829.5	3611.3	3450.4	3393.1	3319.5	3357.7
17.5°	4181.4	4282.3	4249.6	4094.1	3873.2	3649.5	3401.3	3243.1	3123.1	3076.7	3076.7
20°	4339.6	4388.7	4336.9	4017.7	3747.7	3453.1	3213.1	3033.1	2913.1	2894.0	2864.0
22.5°	4462.3	4541.4	4309.6	3905.9	3565.0	3196.7	2921.3	2853.1	2817.6	2787.6	2749.4
25°	4620.5	4617.8	4260.5	3802.3	3251.3	2891.3	2724.9	2719.4	2703.0	2692.1	2744.0
27.5°	4770.6	4707.8	4203.2	3545.9	2926.7	2659.4	2569.4	2629.4	2654.0	2637.6	2659.4
30°	5007.9	4904.2	4121.4	3273.1	2640.3	2424.8	2441.2	2523.0	2563.9	2588.5	2555.8
32.5°	5258.8	5100.6	3952.3	2989.4	2386.6	2277.5	2315.7	2400.3	2449.4	2476.7	2506.7
35°	5621.6	5253.3	3780.4	2618.5	2203.9	2187.5	2209.4	2255.7	2326.6	2345.7	2353.9
37.5°	6068.9	5485.2	3548.6	2321.2	2062.1	2081.2	2103.0	2119.3	2122.1	2157.5	2143.9
40°	6516.2	5681.6	3210.4	2037.5	1914.8	2018.4	2007.5	1977.5	1953.0	1920.2	1912.0
42.5°	6909.0	5853.4	2834.0	1797.5	1783.8	1953.0	1917.5	1841.1	1783.8	1759.3	1718.4
45°	7350.9	6096.2	2454.8	1647.5	1682.9	1873.9	1862.9	1745.7	1672.0	1584.7	1573.8
47.5°	7923.7	6349.8	2092.1	1492.0	1587.5	1843.9	1849.3	1699.3	1592.9	1475.6	1459.3
50°	8657.4	6715.3	1816.6	1426.5	1530.2	1800.2	1808.4	1636.6	1497.4	1377.4	1366.5
52.5°	9361.1	7089.0	1587.5	1325.6	1492.0	1748.4	1767.5	1579.3	1418.3	1268.3	1276.5
55°	9715.7	6952.6	1391.1	1252.0	1404.7	1663.8	1734.8	1538.4	1298.3	1194.7	1192.0
57.5°	9794.8	6617.1	1235.6	1175.6	1331.1	1573.8	1680.2	1415.6	1243.8	1156.5	1145.6
60°	9535.7	6030.7	1112.9	1093.8	1238.3	1481.1	1554.7	1350.2	1189.2	1118.3	1101.9
62.5°	8897.4	5422.5	1028.3	1055.6	1159.2	1380.2	1475.6	1303.8	1137.4	1088.3	1052.9
65°	7296.3	4459.6	960.1	981.9	1077.4	1282.0	1426.5	1252.0	1091.0	1044.7	1041.9
67.5°	5054.2	3074.0	905.6	946.5	1011.9	1211.1	1377.4	1194.7	1031.0	1014.7	992.8
70°	2588.5	1639.3	834.6	867.4	941.0	1121.0	1290.2	1134.7	968.3	965.6	938.3
72.5°	1312.0	960.1	752.8	801.9	853.7	1003.8	1181.0	1055.6	889.2	859.2	815.6
73°	1134.7	889.2	739.2	782.8	831.9	971.0	1148.3	1036.5	878.3	834.6	793.7
75°	826.5	701.0	662.8	706.4	744.6	875.6	1039.2	949.2	807.4	761.0	722.8
77.5°	619.2	540.1	551.0	600.1	632.8	755.5	924.7	859.2	731.0	668.3	651.9
80°	455.5	411.9	455.5	501.9	526.4	665.5	842.8	744.6	616.4	545.5	531.9
82.5°	324.6	300.0	351.9	381.9	392.8	551.0	758.3	594.6	466.4	373.7	343.7
85°	185.5	182.7	237.3	234.6	242.8	321.9	499.1	395.5	300.0	229.1	223.7
87.5°	81.8	90.0	120.0	95.5	100.9	152.7	212.8	147.3	122.7	68.2	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)